

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009221

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06K9/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CAUWENBERGHS G. AND POGGIO T.: "Incremental and Decremental Support Vector Machines" ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS - NIPS 2000, vol. 13, 2001, XP002316050 cited in the application abstract- sections 1-4	1-22
Y	TAX D M J; DUIN R P W: "Support vector domain description" PATTERN RECOGNITION LETTERS, vol. 20, no. 11-13, November 1999 (1999-11), pages 1191-1199, XP004490753 cited in the application sections 1-3	1-22
-/--		

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

17/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Deltorn, J-M

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009221

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SCHÖLKOPF B. AND SMOLA A.J.: "Learning with Kernels, Support Vector Machines, Regularization, Optimization, and Beyond" 2002, MIT PRESS, CAMBRIDGE, MASS, USA, XP002316053 page 227 - page 250 page 312 - page 329 -----	1-22
A	MUKKAMALA S., JANOSKI G. AND SUNG A.: "Intrusion Detection Using Neural Networks and Support Vector Machines" PROCEEDINGS OF THE 2002 INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS, vol. 2, 2002, pages 1702-1707, XP002316051 sections III and IV -----	12-14
A	NGUYEN B.V.: "Application of Support Vector Machines to Anomaly Detection" FINAL PROJECT FOR CS681RESEARCH IN COMPUTER SCIENCE - SUPPORT VECTOR MACHINES - FALL 2002, September 2002 (2002-09), XP002316052 whole document -----	1-22
A	DESOBRY F. AND DAVY M.: "Support Vector-Based Online Detection of Abrupt Changes" 2003 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING ICASSP 2003, 6 April 2003 (2003-04-06), - 10 April 2003 (2003-04-10) pages IV872-IV875, XP010641299 sections 1-3 -----	1-22